

# Balkrishna Atmaram Londhe

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Portfolio- <https://balkrishnabk.github.io/>

Experience:- 2+Years

Linkdin:- <https://www.linkedin.com/in/balkrishna-londhe-5335b088>

Current Location:- Pune

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## OBJECTIVE

As an DevOps Engineer, I worked on automation of CI/CD scripts using dev tools. Working with multiple clients. Responsible for design and implement end to end automated delivery for multiple applications. Responsible for managing Dev tools and managing deployments. Having 2+ years of experience as a Skilled DevOps engineer. Hands-on experience on managing micro Services using Docker and Kubernetes. Experienced with principles and best practices of Software Configuration Management in Agile, Waterfall methodologies. Also, in using open Docker images and also build custom Docker images based on the application requirements. Managing containers using Orchestration tools like Kubernetes. Having a good understanding of Container Log and Management, Networking. Good Understanding of Docker file and its components, written some of the Docker files for Developing Images. Good understanding of Kubernetes manager components like API Server, etc, Scheduler, Kubernetes Controller and Kubernetes Node components like Kube Proxy, POD, Kubelet, Replication Groups, and POD Controller and Good understanding of Kubernetes Networks like Ingres and NodePort. Implemented CI/CD Process with Jenkins and UCD/Ansible to have automation of Continues Integration, Continues Delivery, and Continues Deployment. Involved in Configuring Different jobs like Freestyle and Pipeline Projects and Multi-Branch Project. Hands-on experience in Creating Distributed Environment using Master-Slave Architecture. Involved in Configuring Nexus Repository and JFrog Repository for Managing Artifacts. Experienced in Creating and Managing HTTP and Container Servers like Nginx, HTTP Server, and Tomcat.

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## Technical Skill-Set

Kubernetes, IBM Kubernetes Service, Docker, Amazon Web Services, Gitlab, Automation tools  
Ansible, DB, Linux

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## Setting, Configuring, Managing, Securing, following technologies

Version Control Tools: - GitHub, GitLab, Bitbuckets

Continuous Integration Tools: - Jenkins, GitLab

Continuous Deployment Tools:- GitLab, IBM Urban Code Deploy, Ansible, Jenkins

Image Repository Tools: - jFrog, Nexus, IBM Cloud Container Registry, GitLab Container Registry

Artifactory Repository: - jFrog Artifactory, Nexus Repository, Docker Trusted Registry

**Deployment Platforms:** - Docker, Kubernetes, IBM Cloud Private, IBM Kubernetes Service, Amazon web service cloud, Standalone Virtual Machines

**Scripting:** - Bash, Python, Groovy

**Streaming:** - Kafka-Zookeeper

**Secrets Management:** - HashiCorp Vault, Kubernetes Secrets, GitLab Secrets

**Cloud Computing:** - Amazon Web Services, IBM Cloud Private

**Workload Deployment Automation:** Helm

**Web Tech:** - Apache, Tomcat, Nginx (Load Balancer, Reverse Proxy, Web Server)

**OS:** - Windows 10, Ubuntu 16.04 LTS, Ubuntu 18.04 LTS

**DB:** - Mysql, Postgresql, MongoDB, Oracle, JDBC, InfluxDB

**Domain Record Managing:** - Managing domain entries & maintaining records

**Web Tools:** - Elastic Search, Jmeter, Google Analytics and etc

**Automation:** - Using Bash Scripts & tools i.e. Ansible and UCD.

**Monitoring:** - Grafana(50+ Clients Linux+), Prometheus, Zipkin, AppDynamics, ELK Stack, New Relic

**Configuration:** - Vault, JIRA

**Static Code Analysis:** - Sonarqube, GitLab

**External API Gateway:** - IBM API Connect

**Service Mesh:** - Istio

**API Testing & Verification:** - Postman, Newman

**Virtual/Orchestration Tool:** - VirtualBox, Docker, VMWare, Kubernetes

**Wiki:** - Confluence

**Java Tech:** - Core Java, SpringBoot, JDBC, JSP, Servlets, EJB

**Language:** - C, C++, HTML, Spring Boot, Groovy

**Load Balancer:** - F5 Big IP

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### **Primary Job Responsibilities & Day To Day Activities:-**

#### **Active Member of Core DevOps Team: -**

- Worked on installation and management with regular backup of JIRA on standalone VM
- Set up Monitoring tools like Prometheus and Grafana on the virtual machine
- Developed script for cleaning up unused docker images, exited containers in cluster nodes and older docker images from Artifactory
- Developed container and YAML to deploy the monitoring solution in Kubernetes cluster on to workload of Helm Chart
- Supporting client environment
- Monitoring Development environments
- Wrote shell scripts for one-click installation of basic applications like Java, Maven and etc
- Wrote shell scripts for one-click installation of Docker and it's required applications
- Wrote shell scripts for one-click installation of Kubernetes master and slaves and it's required applications
- Member of DevOps team which was working with multiple clients

- Management of application on Docker and Kubernetes clusters
- Created System metric Dashboard on Grafana for 50+ VMs Working Knowledge on monitoring tool – Grafana, Prometheus and plays a role in Linux Administration
- Worked on Monitoring tool AppDynamics
- Created and verifying reports of testing
- Worked in Newman tool for testing automation
- Prepare Postman reports comparing between various environments for API testing and verifications
- Worked on Different environments like development, test and System Integration test and etc
- Responsible for design and implement end to end automated delivery for multiple applications
- Worked with agile sprints and delivering tasks on time, to achieve sprint goals in JIRA
- Provide visibility into the progress of the tasks using agile tools like JIRA and Confluence

### **Setting Infrastructure and Monitoring**

Designing Kubernetes cluster and Docker Environment for deployment: -

- Made Shell scripts to automate the installation of Kubernetes master and node also Docker setup on Vanilla VM in one script using one command also Automation Scripts for adding dynamic Prometheus target, dynamic creation of Grafana dashboard, dynamic port allocation, dynamic virtual server entry
- Maintain and understand the cluster, to design and deploy the workload in the proper worker nodes
- Creating Docker deployment environment
- Creating Kubernetes cluster with master-slave architectures
- Setting Jenkins and make it available for continuous integration
- Setting IBM Code Deployment and make it available for continuous deployment
- Setting Ansible and make it available for automation and continuous deployment
- Worked on Auto-DevOps pipeline scripts
- Worked on the installation of image repositories like Nexus3 and jFrog
- Worked on installation on artifactory like Nexus2 and jFrog
- Worked on installation of Istio in Kubernetes cluster and managing cluster
- Involved in Creating containers and managing them in both production and nonproduction environments
- Responsible for the installation of the master-slave installation of Kubernetes Clusters
- Worked on the installation of Docker environment installation
- Worked on installation and management of Static code analysis tool like SonarQube
- Worked on installation and management of logging tools like Elasticsearch, Logstash and Kibana
- Worked on installation and management of tools like Zipkin
- Was responsible for deployment and management of istio on Kubernetes clusters
- Worked on the deployment of tools like Kafdrop using docker-compose and helm chart for monitoring of kafka topics and logs
- Worked on the deployment of tools like elastalerts, filebeat, Eureka and etc
- Worked on deployment and management of tools like Configserver, Eureka and HystrixDashboard
- Also, I deployed node exporter, Cadvisor, MySQL
- Involved in Configuring Nexus Repository and JFrog Repository for Managing Artifacts
- Created end to end continuous integration and deployment environment using docker and kubernetes
- Installation of JIRA and management of JIRA
- Management of application on Kubernetes clusters
- Responsible for set up NFS and it's slaves
- Deployment of SonarQube for static code analysis and code coverage
- Istio configuration and routing services using the gateway and VirtualService
- Using Jfrog as image and artifactory management Create Automation CI/CD pipeline using Jenkins and Ansible
- Setting up Kafka-Zookeeper
- Deployed microservices to Kafka on AWS target server
- Use of IBM cloud Container Registry as a Docker Repository

## **Installing ,customizing applications**

- Deployed Java Spring boot applications on Docker and Kubernetes
- Deploy Microservices to different Environment provided by the client using GitLab CI/CD pipelines
- Created automation CI/CD pipeline using Jenkins, Ansible and IBM UCD
- Made Shell scripts to automate the installation of Kubernetes master and node also Docker setup on Vanilla VM in one script using one command also Automation Scripts for adding dynamic Prometheus target, dynamic creation of Grafana dashboard, dynamic port allocation, dynamic virtual server entry
- Created a shell script to remove docker images stored on Nexus3
- Worked on building IIB images
- Created automation CI/CD pipeline using Jenkins, Ansible and IBM UCD also setup of Logging platform for team using – ELK (elastic search, Logstash, Kibana)
- Deployment of application and Management of Docker and Kubernetes clusters
- Developed an automation pipeline in Gitlab for NodeJS microservices application
- The Canonical microservices were deployed using GitLab Auto-DevOps pipeline and create docker images were planned to store in common jFrog artifactory and it will be deployed in the Kubernetes cluster as a part of deployment via the YAML
- Worked on migration activity from Github to Gitlab SAAS to move the microservices and then refactor them to migrate to GitLab SAAS
- Used docker containers in Kubernetes cluster for their application workload (Helm) and AWS
- Working as Spring boot developer and wrote more than 10 spring boot application
- Wrote spring boot application to create and run Continuous Integration activities on Jenkins
- Wrote spring boot application to create and run Continuous Deployment activities on Urban Code Development and Ansible
- Deployment of application and Management of Amazon Web Services Cloud and IBM Kubernetes Service
- Worked on Liquibase and created tables in PostgreSQL
- Deployment of application and Management of IBM Kubernetes Service

## **Monitoring Deployments and Infrastructure**

- Setting Grafana dashboard using InfluxDB and Telegraph which will monitor over 50+ VM's to check health status of new & existing infrastructure.
- Setting up Prometheus for application traces
- Setting up Grafana for application monitoring
- Setting up AppDynamics for monitoring
- Setting up Kafka-Zookeeper for logs and storing topics
- Setting **zipkin**, **grafana** , uptime robot to get downtime alerts
- Setting debug log for installed apps & regular monitoring for issues
- Log Management:- Monitoring,Inspecting,configuring,Rotating
- Worked on Kafka event messaging system to perform deployment on AWS target server

## **System Automation & Issue tracking**

- Automating deployment with Ansible and IBM Urban Code Deploy
- Maintaining uniqueness in setup with the help of above tools.
- Creating redirection rules as per the requirements.
- Resolving issues with the help of log monitoring & tools.
- Working with coding team to trace & debug system & website related issues.
- Server Hardening, installing latest available update, closing unwanted ports etc

## **Hands on expertise**

- Dockerfiles and Docker-compose files
- Kubernetes Deployments
- Helm chart creation and deployment
- IBM Cloud Private
- IBM Kubernetes Service

- Docker Container Registry
- Setting simple rules to deny sites & downloads.
- Monitoring users' activities & reporting to superiors

### **BASIC OF VMWARE SERVER(Experimental)**

- Installing configuring VMWARE server
- Installing Virtual machines
- Network configuration for Virtual machines
- Running Multiple OS in single Host
- Installing ESX server & It's network configuration
- Installing Virtual Central Server (Infrastructure Client)
- Installing all infrastructure on multiple VM's

### **BACKUP & STORAGE:-**

- Was responsible for having JIRA backup and restoring backup in new JIRA instance
  - Creating backup for docker images and artifacts and restoring them
  - Having periodic backup of deployed applications and data of applications
  - Storing backup of Vault secrets
  - Taking backup of Jenkins and restoring if needed
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### **Experience: -**

#### **Current Employer Details**

**Current Employer: IBM India Private Limited**  
**Location: - Hinjewadi, Pune (Maharashtra, India)**  
**Time Period: - April 2018 –Till Date.**  
**Current Role: - DevOps Engineer**

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### **Education and Professional Certifications: -**

#### **Education**

- Bachelor of Engineering (BE) In Computers. (Savitribai Phule Pune University) 2013-2017 in First Class with Distinction in Dhole Patil college of engineering. (Wagholi, Pune)
- H.S.C from Science in Maharashtra State Board with First Class, India, 2013
- S.S.C from SSC Maharashtra State Board with First Class with Distinction, India, 2011

#### **Professional Certifications**

- Learn Devops The Complete Kubernetes Course
- Hands-On Auto DevOps with GitLab CI
- GitLab introduction
- DevOps for DevOps Project Team Members
- Docker Essential
- Kubernetes Getting Started
- DevOps Essentials

- Get started with Kubernetes and IBM Cloud Container Service
- Docker Essentials: A Developer Introduction
- Containers, K8s and Istio on IBM Cloud
- Beyond the Basics: Istio and IBM Cloud Kubernetes Service
- Jenkins Beginner Tutorials
- Git: Become an Expert in Git and GitHub
- Build+Deploy+Test with Jenkins 2.0
- Ansible Advanced-HandsOn-DevOps
- DevOps learning path for DevOps Essentials badge
- DevOps - The pre-Requisite
- DevOps Crash Course: CI/CD with Jenkins Pipelines Groovy DSL
- Getting Started with Jenkins
- Just enough Ansible to be dangerous
- Enterprise Design Thinking Practitioner
- Enterprise Design Thinking Co-Creator
- IBM Automation Essentials
- Cognitive Practitioner
- Java Certification from KTI
- Advance Java Certification
- Workshop on Ethical Hacking and Computer Forensics
- MS-CIT
- C Language
- C++ Language

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### **Personal Profile: -**

**Name** : - Balkrishna Atmaram Londhe

**Date of Birth** : - 17<sup>th</sup> August 1995

**Marital Status** : - Single

**Gender** : - Male

**Mobile** : - +91-9325877900, +91-9623325030

**Email** : - [londhebalkrishna@gmail.com](mailto:londhebalkrishna@gmail.com)

**Portfolio** : - <https://balkrishnabk.github.io/>

**BE (Computer Engineering):-** Dhole Patil College of Engineering, Wagholi, Pune

Year of Passing - May 2016-17

**First Class with Distinction**

(Savitribai Phule Pune University, Pune)

**Address** : - Pune, Maharashtra

**Achievements** : -

- Mr. Academics award by department in engineering
- Manager's Choice Award for demonstrating the following IBM Practice: Restlessly reinvent -- our company and ourselves
- Manager's Choice Award
- BEN's SUPERSTAR